

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P959734

Luminaire Tested: **NAV-SB1B-722-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-722-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

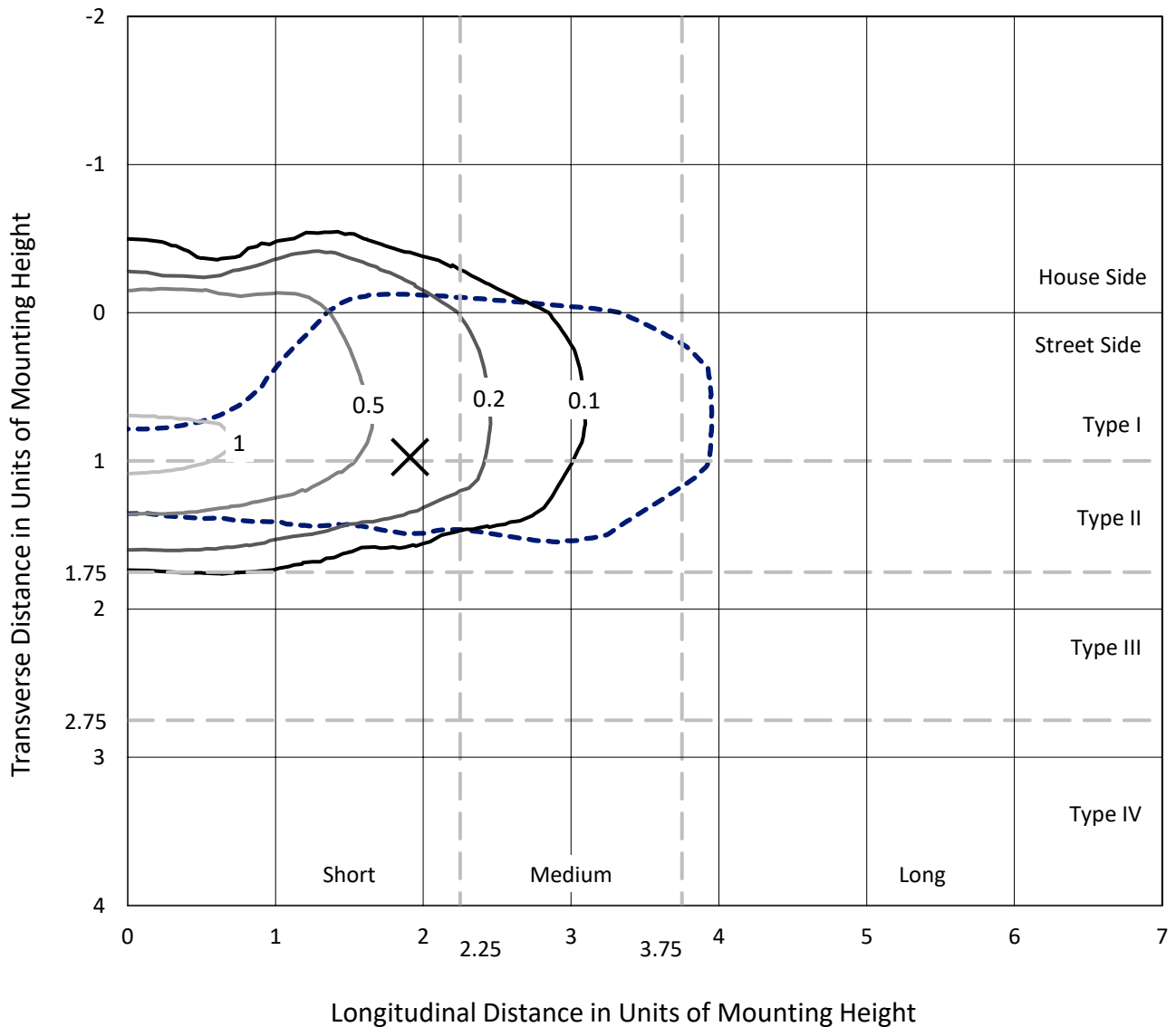
Lumens per Lamp: N/A  
Luminaire Lumens: 3644.9 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

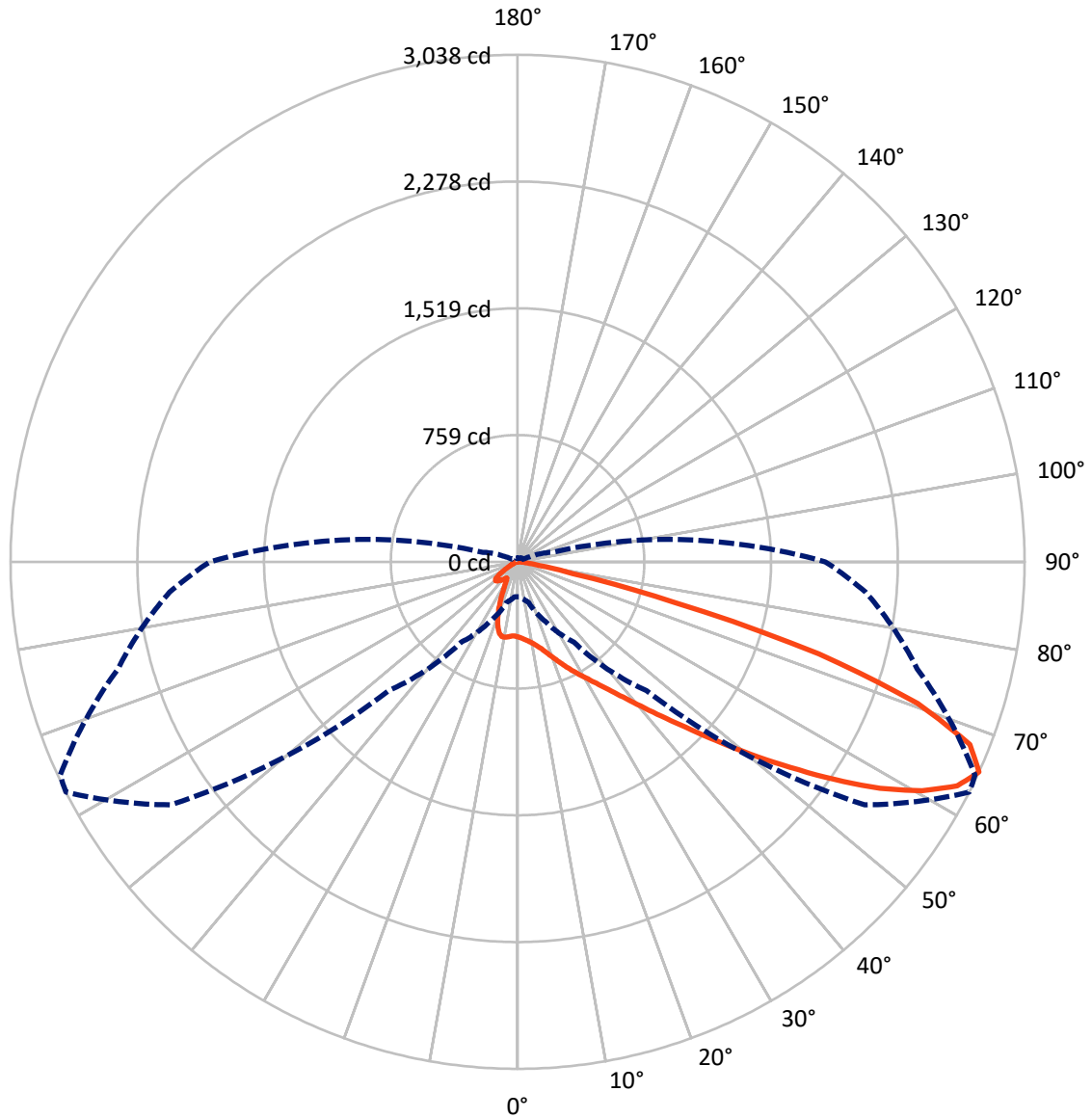
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	535.8	0.0	535.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	3109.1	0.0	3109.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	3644.9	0.0	3644.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.2
10°-20°	117.6	3.2
20°-30°	204.8	5.6
30°-40°	369.1	10.1
40°-50°	732.0	20.1
50°-60°	997.1	27.4
60°-70°	795.9	21.8
70°-80°	360.2	9.9
80°-90°	25.9	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3644.9	100.0
0°-180°	3644.9	100.0

**Coefficient of Utilization**



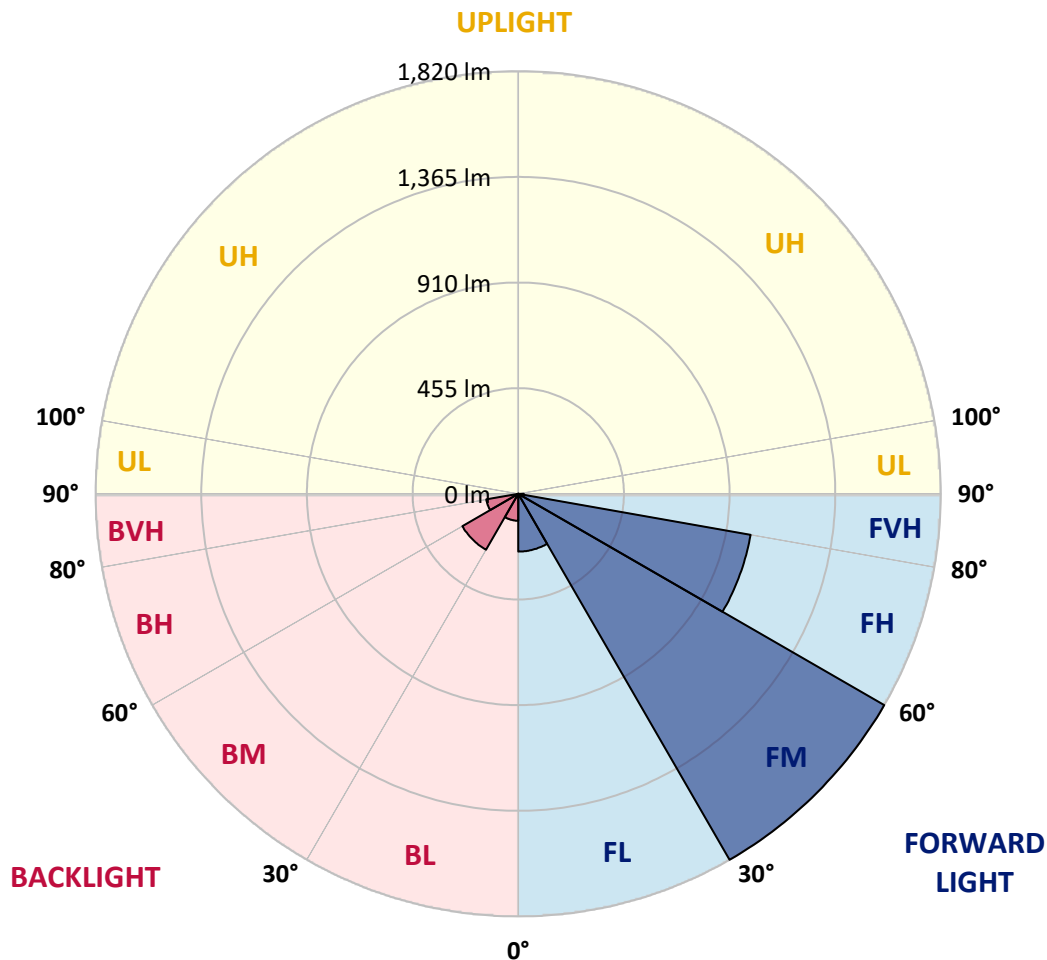
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.8	6.8			
FM (30°-60°)	1820.2	49.9			
FH (60°-80°)	1016.2	27.9			G1/1800
FVH (80°-90°)	24.0	0.7			G1/100
BL (0°-30°)	116.0	3.2	B1/500		
BM (30°-60°)	278.0	7.6	B1/1000		
BH (60°-80°)	139.9	3.8	B1/500		G1/500
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	460.4	459.1	460.8	460.1	459.6	458.6	458.2	457.7	456.6	455.8	452.8
5°	461.7	460.8	462.7	464.1	465.7	467.2	467.9	468.9	467.9	465.9	462.9
7.5°	451.1	450.6	454.4	458.9	465.7	471.4	477.6	481.2	481.4	480.7	477.4
10°	450.4	449.1	452.8	458.4	467.2	477.4	488.5	496.0	497.0	500.2	496.7
12.5°	462.2	460.8	466.2	472.2	481.2	492.0	505.5	516.1	517.5	522.0	519.6
15°	482.0	480.2	486.2	493.9	505.5	517.8	532.1	541.6	542.8	548.4	543.9
17.5°	505.0	503.3	510.2	518.5	531.1	547.9	564.5	575.0	576.5	579.9	571.7
20°	534.6	532.4	537.8	545.4	558.6	578.7	598.5	613.6	613.4	613.4	599.8
22.5°	569.0	565.5	570.2	576.3	588.8	613.1	639.4	657.2	657.2	650.2	627.9
25°	605.8	602.3	607.6	613.1	624.1	651.7	682.5	704.6	705.6	693.6	657.9
27.5°	652.0	647.5	651.5	657.9	664.5	692.6	729.2	754.8	755.2	736.7	686.5
30°	740.8	728.0	715.3	708.4	711.3	739.2	778.4	806.7	809.1	783.6	717.6
32.5°	903.2	900.7	856.6	798.9	768.9	789.4	833.2	867.4	868.9	836.0	758.0
35°	1155.7	1152.7	1081.8	971.9	873.9	856.6	900.0	940.3	939.3	902.2	810.5
37.5°	1457.1	1454.4	1360.8	1213.9	1055.1	958.2	985.9	1028.4	1034.6	985.9	878.1
40°	1714.6	1704.4	1645.2	1503.5	1295.9	1126.7	1108.3	1136.4	1143.0	1085.3	964.1
42.5°	1909.8	1901.0	1870.8	1782.4	1587.2	1375.9	1252.6	1263.3	1270.6	1201.4	1062.9
45°	2010.7	2008.8	2020.8	2012.6	1884.2	1681.8	1458.6	1413.8	1416.6	1330.0	1175.1
47.5°	2025.1	2024.1	2079.0	2156.7	2139.4	2026.8	1723.1	1601.3	1591.5	1475.2	1296.9
50°	1940.8	1938.8	2044.2	2189.8	2309.9	2316.7	2023.6	1812.7	1791.1	1625.3	1424.0
52.5°	1671.8	1671.3	1844.3	2086.8	2369.9	2570.5	2320.5	2044.9	2008.8	1784.3	1558.4
55°	1286.4	1295.6	1493.9	1780.6	2260.5	2692.6	2587.0	2302.7	2247.2	1944.3	1682.3
57.5°	911.2	924.8	1120.8	1376.2	1921.5	2620.3	2767.3	2561.0	2501.2	2103.8	1807.9
60°	489.4	501.5	697.8	1002.6	1429.6	2351.0	2862.3	2785.1	2728.7	2255.3	1921.3
62.5°	291.6	295.6	376.9	647.2	966.9	1796.1	2821.9	2955.9	2909.5	2382.4	2019.8
65°	209.4	210.1	251.0	395.1	587.0	1091.3	2538.8	3037.6	3023.3	2478.1	2092.7
67.5°	176.3	175.8	192.8	262.5	400.0	546.6	1945.9	2922.0	2982.6	2538.8	2134.2
70°	151.2	151.9	172.0	192.3	300.6	309.4	967.4	2544.2	2673.5	2554.9	2131.7
72.5°	112.5	115.1	133.7	175.3	226.9	212.9	334.0	1886.4	2120.3	2407.2	2021.1
75°	79.4	80.8	94.0	147.4	169.2	155.0	170.6	975.2	1275.1	1845.5	1654.2
77.5°	61.2	63.4	71.2	103.0	166.8	108.9	104.3	337.5	518.5	1114.9	1134.2
80°	33.1	37.1	51.5	74.5	117.1	77.0	51.7	134.4	175.8	521.3	437.3
82.5°	17.0	19.1	35.9	53.7	66.7	67.2	25.6	56.0	72.5	161.0	60.0
85°	6.8	8.3	24.1	29.6	34.3	33.1	11.6	22.5	26.0	44.6	18.3
87.5°	1.5	2.5	8.8	6.8	6.6	7.0	2.8	5.2	5.0	5.2	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	452.6	451.6	448.8	445.9	442.3	440.3	439.1	438.8	437.1	435.8	437.1
5°	460.1	459.1	453.9	447.6	440.9	435.5	430.5	426.0	419.5	418.3	417.8
7.5°	475.2	472.4	463.9	455.4	442.6	427.3	408.8	387.4	368.4	362.5	359.9
10°	493.7	489.9	479.2	464.1	435.8	394.2	349.3	307.7	274.6	265.3	261.8
12.5°	514.8	511.6	497.2	469.4	407.4	332.0	263.3	211.7	179.6	171.5	169.2
15°	539.9	535.2	515.3	461.4	356.8	252.3	180.8	150.2	138.7	137.1	135.6
17.5°	566.4	558.6	531.4	432.6	288.6	179.3	139.7	130.9	125.9	124.3	123.6
20°	590.8	580.8	540.9	388.9	215.7	139.7	125.2	119.3	114.8	113.1	112.1
22.5°	615.1	600.8	540.9	329.5	161.7	123.9	114.8	109.6	104.3	102.1	100.8
25°	640.4	621.4	531.4	263.3	130.2	113.6	105.1	99.3	94.8	92.0	91.0
27.5°	665.0	638.7	509.5	200.6	115.8	104.6	96.0	90.5	86.3	84.3	84.3
30°	688.3	655.7	479.0	152.2	106.6	95.8	87.7	83.0	78.7	76.8	77.0
32.5°	720.0	677.3	446.4	124.8	98.5	87.5	80.3	75.7	72.0	70.4	70.4
35°	763.8	709.1	418.3	122.6	91.7	80.8	73.5	69.2	65.5	64.2	64.2
37.5°	825.9	760.6	403.4	137.7	86.3	74.7	68.0	63.4	60.0	58.9	58.6
40°	902.7	830.2	411.4	152.7	82.5	69.5	62.9	58.4	55.5	54.1	53.9
42.5°	993.7	916.2	455.8	164.2	79.9	65.0	58.2	53.2	51.1	50.6	50.6
45°	1098.3	1010.8	523.8	176.5	76.0	60.7	53.4	49.6	48.2	47.9	47.7
47.5°	1217.2	1114.6	602.6	191.8	72.0	56.7	49.6	47.2	45.9	45.4	45.4
50°	1335.0	1219.1	683.6	200.4	68.7	52.9	46.6	44.6	43.7	43.4	43.4
52.5°	1458.4	1326.8	749.0	192.3	65.9	49.9	44.2	42.6	41.6	41.4	41.4
55°	1575.9	1413.8	760.2	163.3	60.5	46.8	41.4	40.6	39.4	39.4	39.2
57.5°	1677.3	1457.3	680.5	119.8	54.9	42.3	38.6	37.8	36.9	36.6	36.4
60°	1770.3	1444.8	525.3	80.8	48.9	37.8	35.1	34.6	33.6	32.4	32.1
62.5°	1822.8	1389.7	359.4	52.7	42.8	33.1	31.1	30.9	28.6	26.0	25.6
65°	1842.5	1276.3	224.2	38.3	35.9	28.3	26.9	26.3	23.1	20.3	20.1
67.5°	1825.2	1089.8	113.1	30.3	28.3	23.6	22.0	22.0	19.8	17.3	17.0
70°	1756.0	816.9	47.7	24.3	21.8	18.0	18.0	19.1	16.8	14.0	13.8
72.5°	1605.9	549.6	25.3	18.6	16.3	12.8	14.8	15.6	13.3	10.6	10.6
75°	1276.5	335.3	17.5	13.8	10.2	9.0	11.3	11.8	9.0	7.0	6.8
77.5°	873.1	192.6	11.8	8.8	6.6	5.2	7.8	7.3	4.7	3.3	3.5
80°	383.3	80.3	6.8	4.0	2.5	2.0	2.8	2.0	1.5	1.0	1.0
82.5°	44.9	18.8	2.5	1.5	1.0	0.5	0.2	0.0	0.0	0.0	0.0
85°	9.3	2.3	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)